

**WRITING ELEMENT WITH NO RETURN PATH**ABSTRACT OF THE DISCLOSURE

5 A writing element includes a writing pole, a conducting coil and  
an insulating material. The writing pole includes a pole tip and extends  
therefrom to a back gap region. The conducting coil includes coil  
segments positioned adjacent and transverse to the writing pole. The coil  
segments are adapted to produce magnetic signals that orient  
magnetization vectors at the pole tip of the writing pole in a desired  
10 direction. The insulating material is formed between the writing pole  
and the coil segments. Magnetic signals do not conduct to the back gap  
region through a return pole element.

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